CLAIMS

1	1. (currently amended) A method for reducing interference between two or more			
2	communication systems that share a common wireless transmission medium, the method comprising:			
3	transmitting one or more first-standard messages conforming to a first communication standard			
4	associated with a first of the communication systems in a first-standard beacon period for the first			
. 5	communication standard, wherein:			
6	the one or more first-standard messages are designed to notify one or more nodes			
7	conforming to the first communication standard of (1) the existence of a contention free period (CFP) for			
8	the first communication system[[5]] and (2) the existence of a contention access period (CAP) for the fir			
9	communication system; and			
10	transmitting one or more second-standard messages conforming to a second communication			
11	standard different from the first communication standard, associated with a second of the communication			
12	systems in a second-standard beacon period for the second communication standard, wherein:			
13	the one or more second-standard messages are designed to notify one or more nodes			
14	conforming to the second communication standard of (1) the existence of a CFP for the second			
15	communication system and (2) the existence of a CAP for the second communication system; and			
16	timing of the CFPs and CAPs for the first and second communication systems is			
17	coordinated such that:			
18	[[the]] a CFP for the first communication system spans (1) a CFP for [[a second			
19	of]] the second communication system[[s conforming to a second communication standard different from			
20	the first communication standard]] and (2) a second-standard beacon period; and			
21	a CAP for the second communication system spans (1) a CAP for the first			
22	communication system and (2) a first-standard beacon period.			
1	2. (currently amended) The invention of claim 1, wherein the CFP for each node			
2	conforming to the first communication system spans the CFP for the second communication system as			
3	well as a subsequent beacon period standard is allowed to contend for access to the common wireless			
4	transmission medium only during the CAPs for the second communication system standard.			
1	3. (currently amended) The invention of claim 1, wherein:			
2	the one or more first-standard messages enable the one or more nodes conforming to the first			
3	communication standard to access the common wireless transmission medium during a [[contention			
4	access period (CAP)[] CAP for the second communication system; and			

the one or more first-standard messages disable the one or more nodes conforming to the first communication standard from accessing the common wireless transmission medium during each CFP for the second communication system. (currently amended) The invention of claim 1, wherein transmitting the one or more first-standard messages comprises transmitting a first message conforming to the first communication standard to notify the one or more nodes conforming to the first communication standard of the beginning of the CFP for the first communication system. 5. (original) The invention of claim 4, wherein the first message is transmitted at the end of a CAP for the second communication system. 6. (original) The invention of claim 4, wherein the first message identifies the duration of the CFP for the first communication system. 7. (currently amended) The invention of claim 4, wherein transmitting the one or more first-standard messages further comprises transmitting a second message conforming to the first communication standard to notify the one or more nodes conforming to the first communication standard of the end of the CFP for the first communication system. (original) The invention of claim 7, wherein the second message is transmitted at the 8. beginning of a subsequent CAP for the second communication system. 9. (original) The invention of claim 1, wherein: the common wireless transmission medium is a wireless channel; the first communication standard is IEEE 802.11; and the second communication standard is IEEE 802.15.3. 10. (original) The invention of claim 9, wherein the first and second messages are transmitted from a node that functions as both an IEEE 802.11 access point and an IEEE 802.15.3 piconet controller.

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the second communication system after the end of the CFP for the second communication system.

(original) The invention of claim 1, further comprising transmitting a beacon frame for

1	12.	(original) The invention of claim 1, wherein the one or more messages are transmitted			
2	over the common wireless transmission medium.				
1	13.	(currently amended) A combined node comprising:			
2	(a)	a first transceiver conforming to a first communication standard;			
3	(b)	a second transceiver conforming to a second communication standard different from the			
4	first communic	eation standard; and			
5	(c)	a controller adapted to coordinate operations of the first and second transceivers,			
6	wherein:				
7		the first transceiver is part of a first communication system conforming to the first			
8	communication	n standard;			
9		the second transceiver is part of a second communication system conforming to the			
10	second commu	nication standard;			
11		the first and second communication systems share a common wireless transmission			
12	medium;				
13		the first transceiver is adapted to transmit one or more first-standard messages			
14	conforming to	the first communication standard, wherein:			
15		the one or more first-standard messages are designed to notify one or more other			
16	nodes conform	ing to the first communication standard of (1) the existence of a contention free period			
17	(CFP) for the f	irst communication system[[;]] and (2) the existence of a contention access period (CAP)			
18	for the first con	mmunication system;			
19		the second transceiver is adapted to transmit one or more second-standard messages			
20	conforming to	the second communication standard, wherein:			
21		the one or more second-standard messages are designed to notify one or more			
22	other nodes con	nforming to the second communication standard of (1) the existence of a CFP for the			
23	second commu	nication system and (2) the existence of a CAP for the second communication system,			
24	CHARACTER	IZED IN THAT the controller is adapted to coordinate timing of the CFPs and CAPs for			
25	the first and se	cond communication systems such that:			
26		[[the]] a CFP for the first communication system spans (1) a CFP for the second			
27	communication	n system and (2) a second-standard beacon period; and			
28		a CAP for the second communication system spans (1) a CAP for the first			
29	communication	system and (2) a first-standard beacon period.			

1	14.	(currently amended) The invention of claim 13, wherein the CFP for each node			
2	conforming to the first communication system spans the CFP for the second communication system as				
3	well as a subsequent beacon period standard is allowed to contend for access to the common wireless				
4	transmission n	nedium only during the CAPs for the second communication system standard.			
1	15.	(original) The invention of claim 13, wherein:			
2	the on	e or more messages enable the one or more nodes conforming to the first communication			
3	standard to access the common wireless transmission medium during a contention access period (CAP)				
4	for the second	communication system; and			
5	the on	e or more messages disable the one or more nodes conforming to the first communication			
6	standard from accessing the common wireless transmission medium during each CFP for the second				
.7	communication system.				
1	16.	(original) The invention of claim 13, wherein the first transceiver is adapted to transmit			
2	a first message conforming to the first communication standard to notify the one or more nodes				
3	conforming to the first communication standard of the beginning of the CFP for the first communication				
4	system.				
1	17.	(original) The invention of claim 16, wherein the first message is transmitted at the end			
2	of a CAP for the second communication system.				
1	18.	(original) The invention of claim 16, wherein the first message identifies the duration of			
2	the CFP for th	e first communication system.			
1	19.	(original) The invention of claim 16, wherein the first transceiver is further adapted to			
2	transmit a sec	ond message conforming to the first communication standard to notify the one or more			
3	nodes conforming to the first communication standard of the end of the CFP for the first communication				
4	system.				
1	20.	(original) The invention of claim 19, wherein the second message is transmitted at the			
2	beginning of a subsequent CAP for the second communication system.				

(original) The invention of claim 13, wherein:

the common wireless transmission medium is a wireless channel;

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3	the first communication standard is IEEE 802.11; and				
4	the second communication standard is IEEE 802.15.3.				
1	22. (original) The invention of claim 21, wherein:				
2	the first transceiver functions as an IEEE 802.11 access point;				
3	the second transceiver functions as an IEEE 802.15.3 piconet controller.				
1	23. (original) The invention of claim 13, wherein the second transceiver is adapted to				
2	transmit a beacon frame for the second communication system after the end of the CFP for the second				
3	communication system.				
1	24. (original) The invention of claim 13, wherein the one or more messages are transmitted				
2	over the common wireless transmission medium.				
1	25-30. (canceled)				